OIPE
MAR 10 2004
PATENT & TRADEMARK OFFICE

FIG. 1

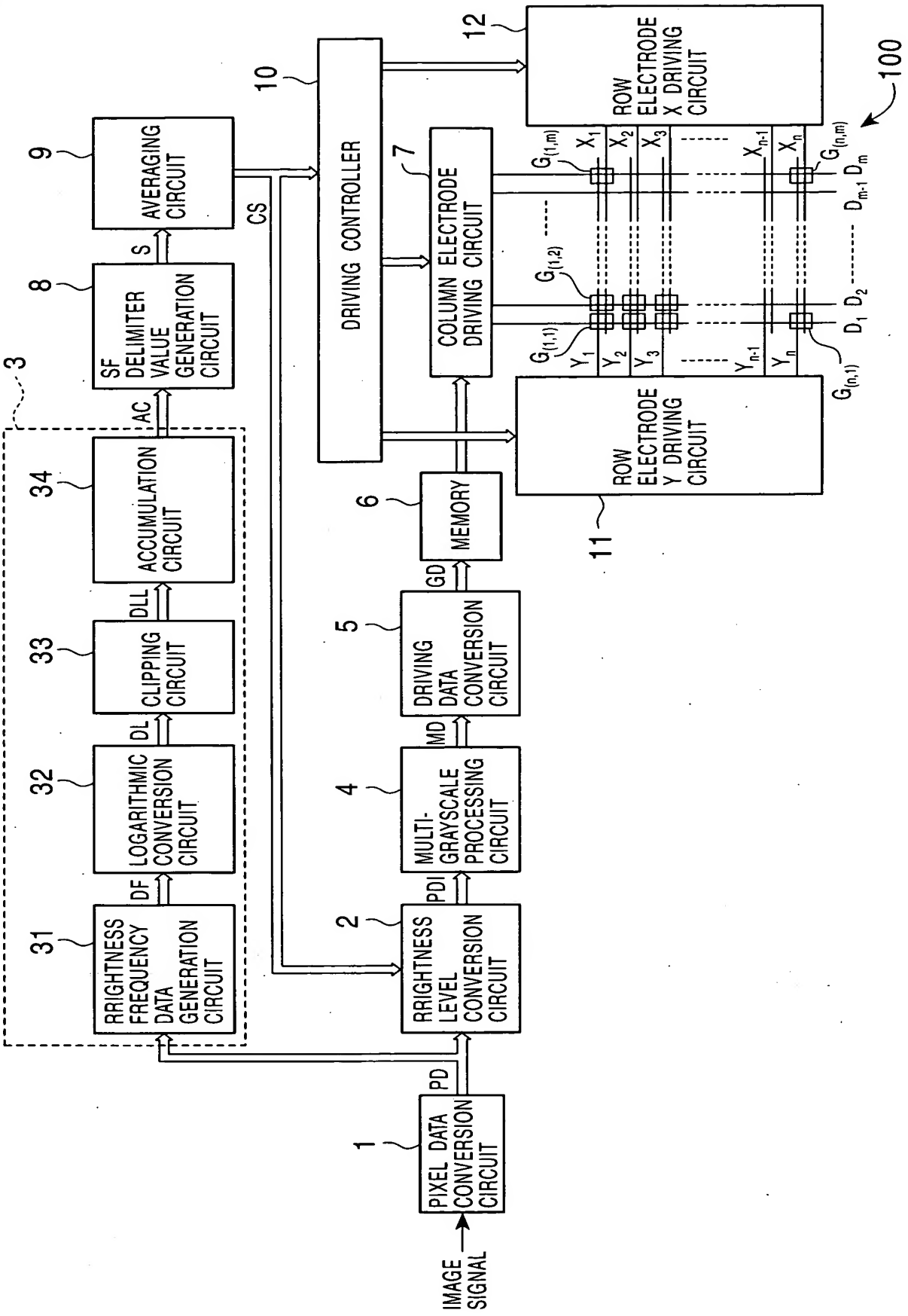


FIG. 2

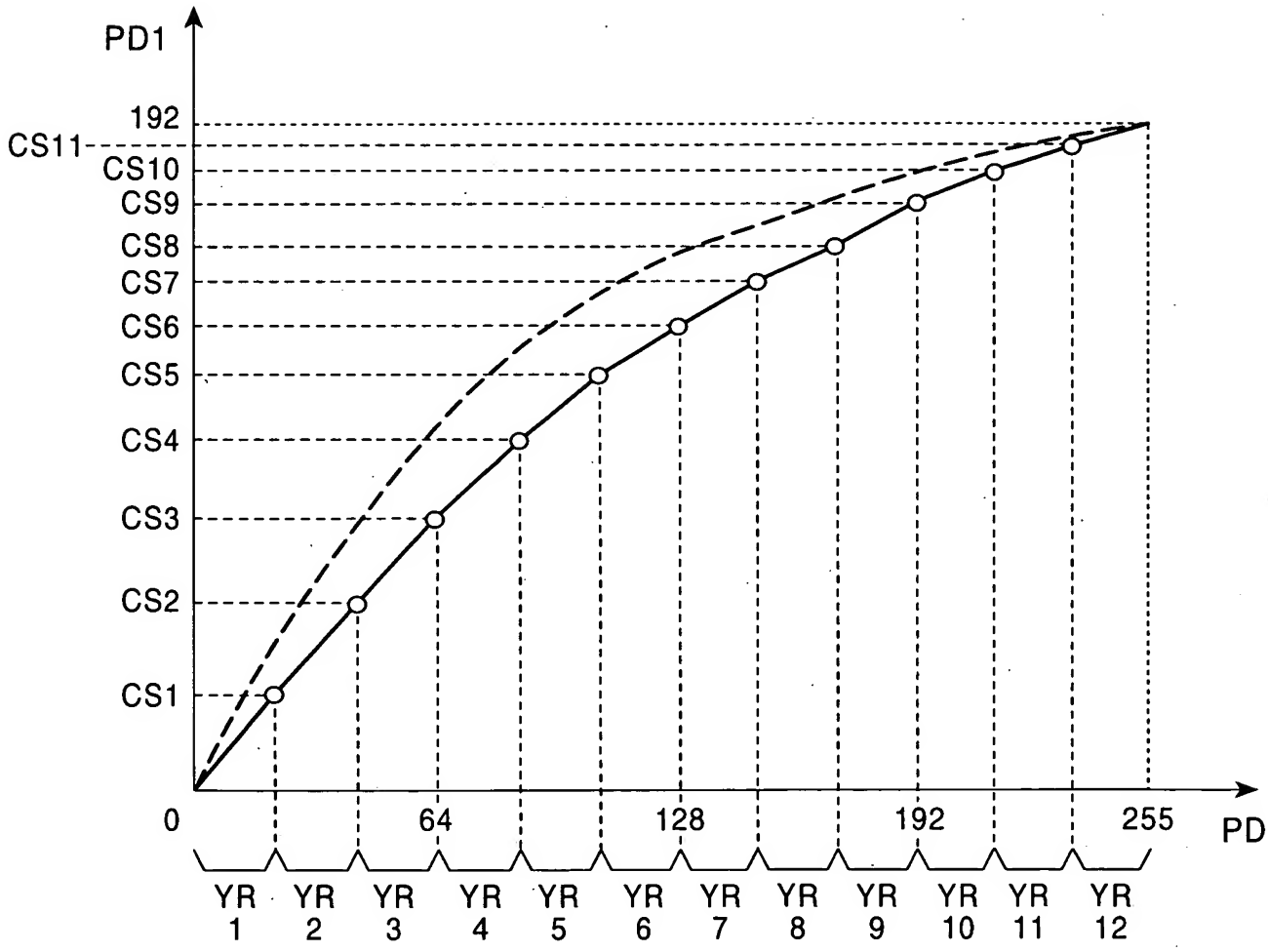

PD1
192
CS11
CS10
CS9
CS8
CS7
CS6
CS5
CS4
CS3
CS2
CS1
0
64
128
192
255
PD
YR 1
YR 2
YR 3
YR 4
YR 5
YR 6
YR 7
YR 8
YR 9
YR 10
YR 11
YR 12

FIG. 3

GRAYSCALE	CONVERSION TABLE													EMISSION DRIVING PATTERN											
	MD	GD												SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF	SF
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
1	0000	1	*	*	*	*	*	*	*	*	*	*	*	●											
2	0001	0	1	*	*	*	*	*	*	*	*	*	*	○	●										
3	0010	0	0	1	*	*	*	*	*	*	*	*	*	○	○	●									
4	0011	0	0	0	1	*	*	*	*	*	*	*	*	○	○	○	●								
5	0100	0	0	0	0	1	*	*	*	*	*	*	*	○	○	○	○	●							
6	0101	0	0	0	0	0	1	*	*	*	*	*	*	○	○	○	○	○	●						
7	0110	0	0	0	0	0	0	1	*	*	*	*	*	○	○	○	○	○	○	●					
8	0111	0	0	0	0	0	0	0	1	*	*	*	*	○	○	○	○	○	○	○	●				
9	1000	0	0	0	0	0	0	0	0	1	*	*	*	○	○	○	○	○	○	○	○	●			
10	1001	0	0	0	0	0	0	0	0	0	1	*	*	○	○	○	○	○	○	○	○	○	●		
11	1010	0	0	0	0	0	0	0	0	0	0	1	*	○	○	○	○	○	○	○	○	○	○	●	
12	1011	0	0	0	0	0	0	0	0	0	0	0	1	○	○	○	○	○	○	○	○	○	○	○	●
13	1100	0	0	0	0	0	0	0	0	0	0	0	0	○	○	○	○	○	○	○	○	○	○	○	○

*: 0 OR 1

● : SELECTED ERASE DISCHARGE

○ : EMISSION SF

FIG. 4

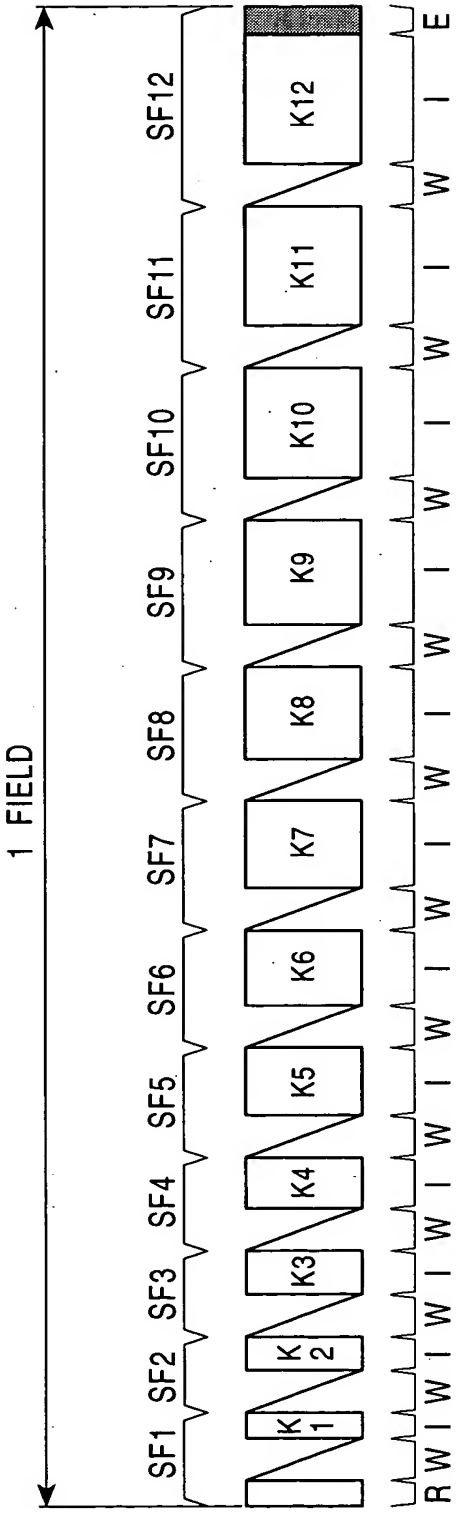

1 FIELD
SF1
SF2
SF3
SF4
SF5
SF6
SF7
SF8
SF9
SF10
SF11
SF12
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
K12
RESET
WRITE
ERASE

FIG. 5A

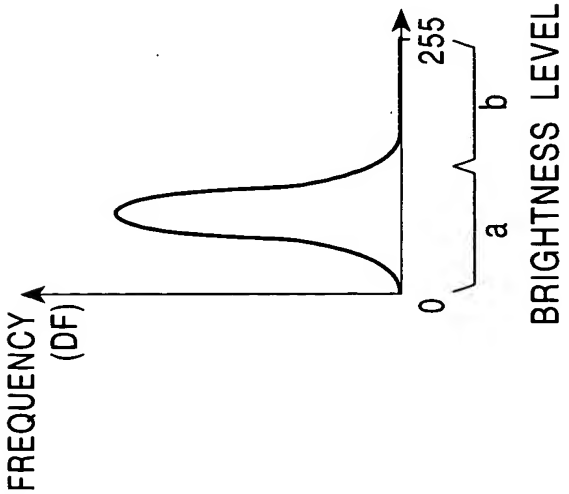


FIG. 5B

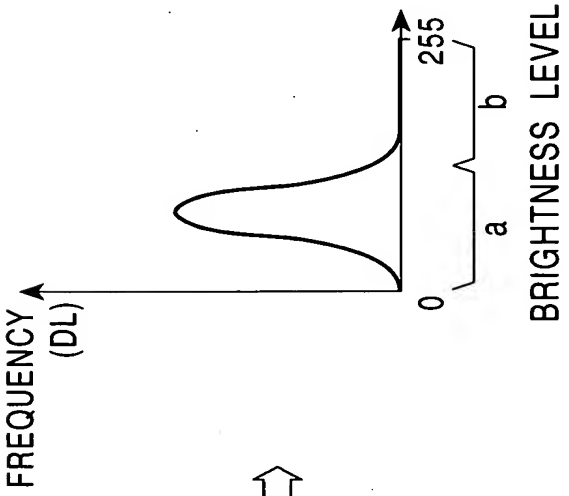


FIG. 5C

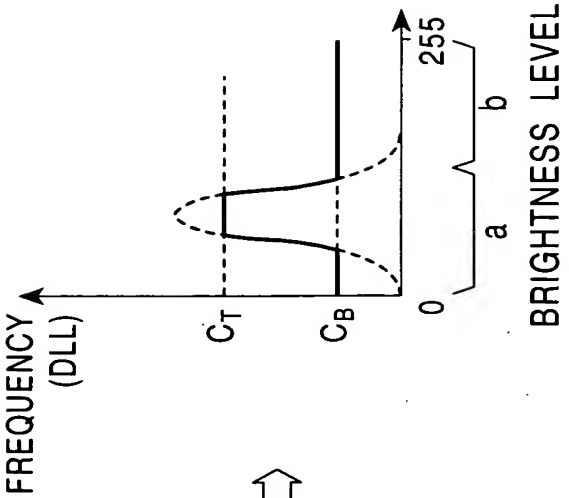


FIG. 6A

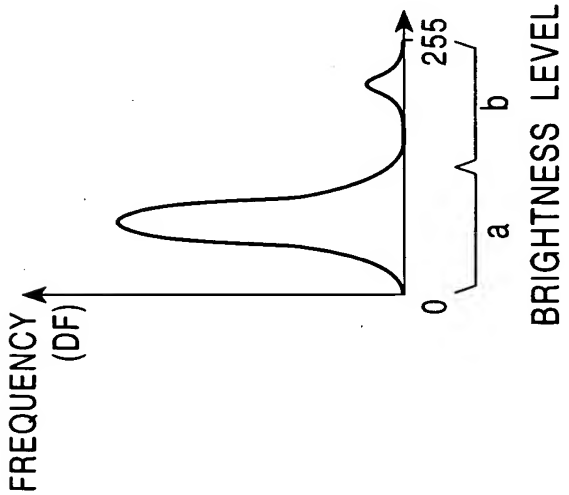


FIG. 6B

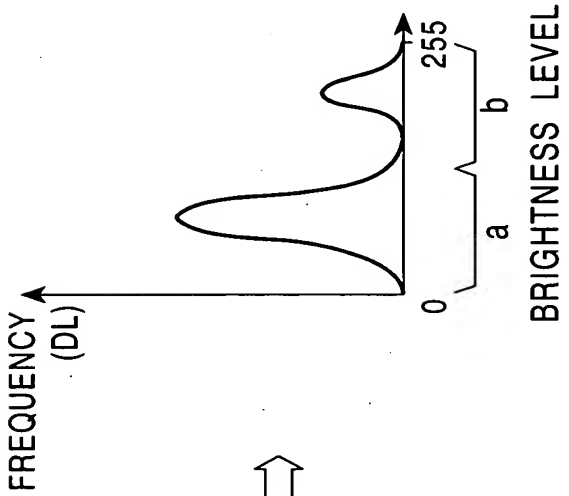


FIG. 6C

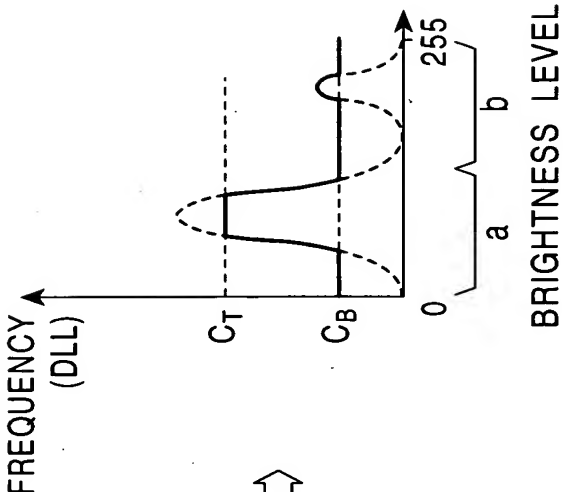


FIG. 7

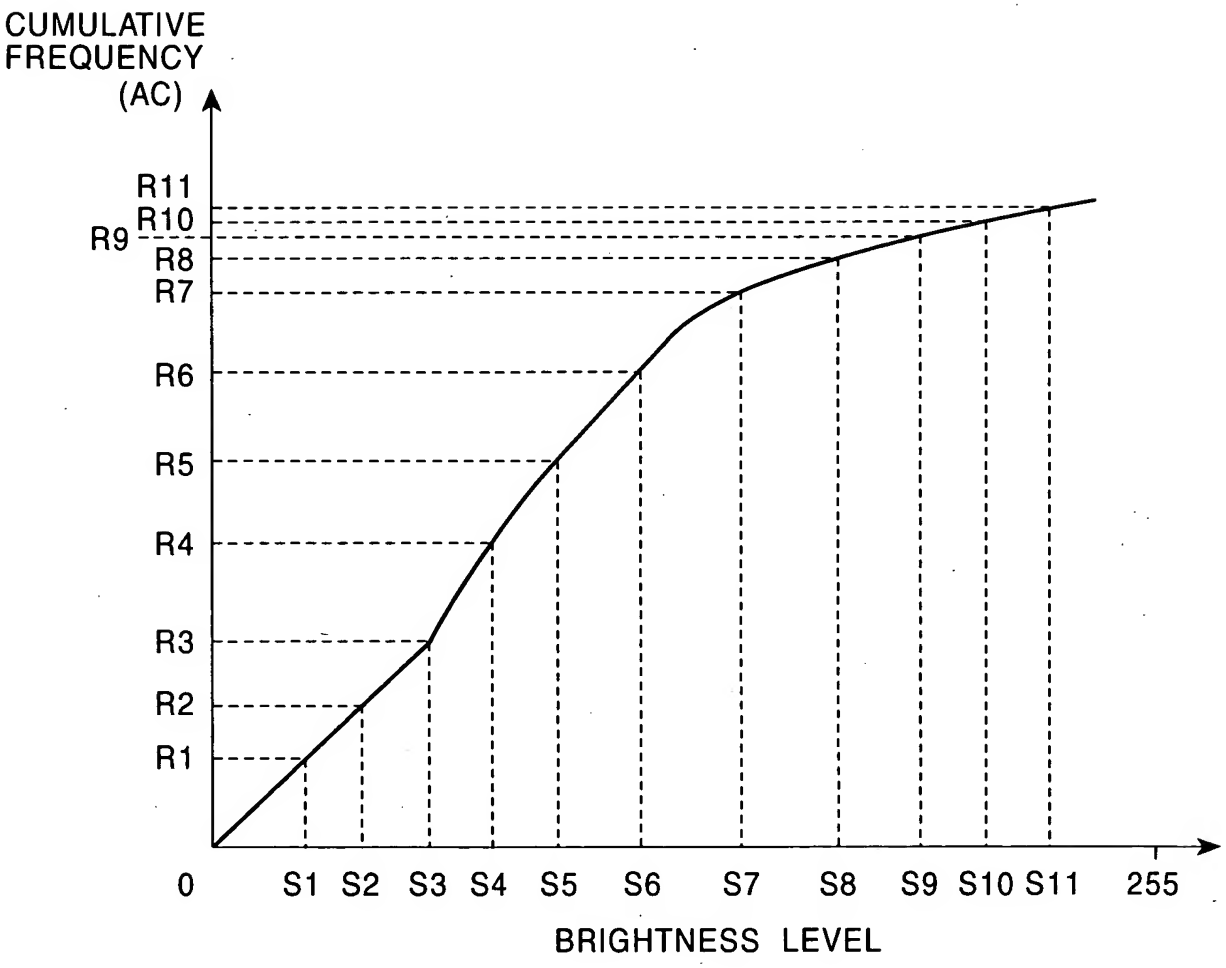

CUMULATIVE
FREQUENCY
(AC)
R11
R10
R9
R8
R7
R6
R5
R4
R3
R2
R1
0
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
255
BRIGHTNESS LEVEL

FIG. 8A

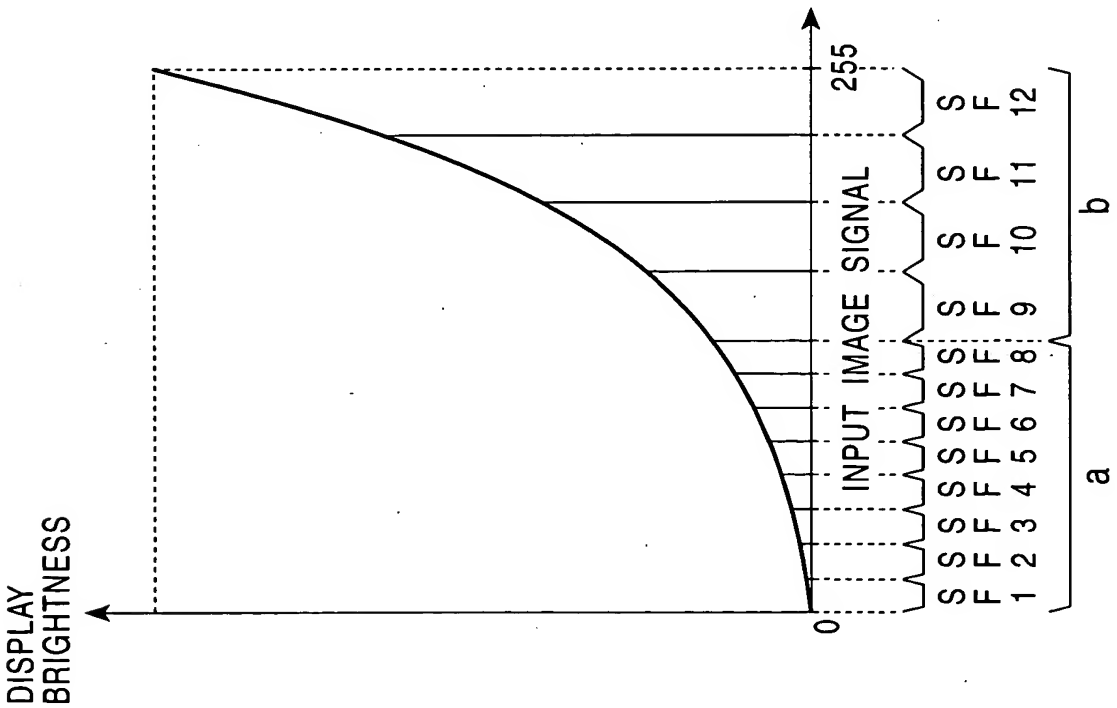
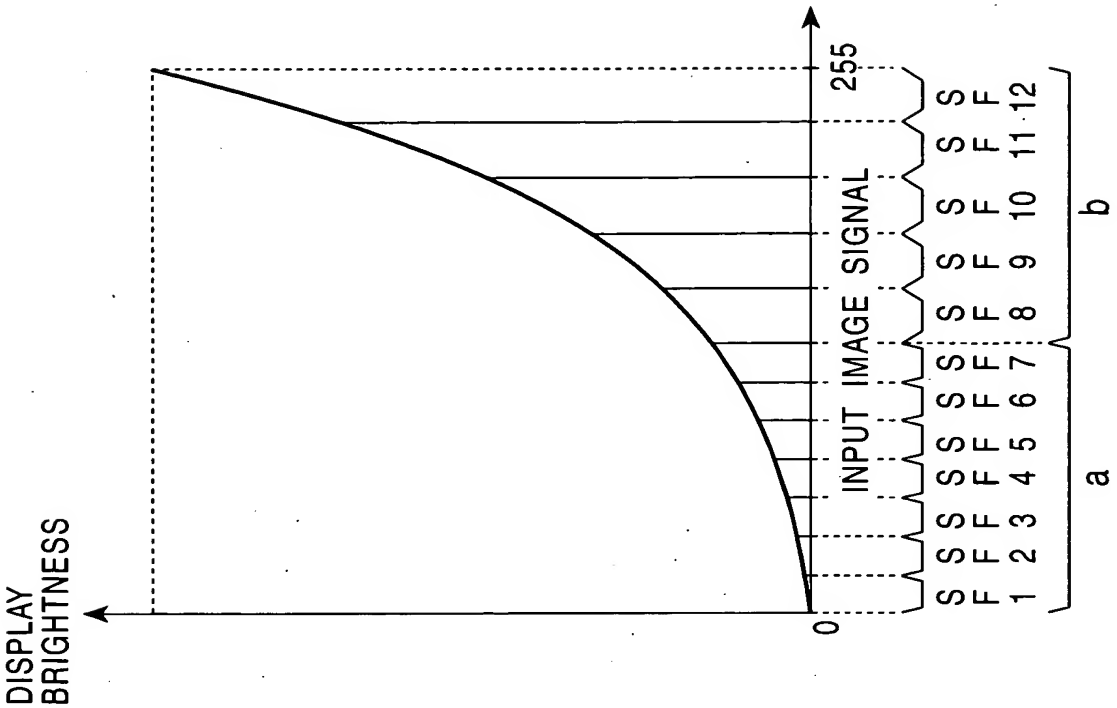

DISPLAY
BRIGHTNESS
0
255
INPUT IMAGE SIGNAL
1 2 3 4 5 6 7 8 9 10 11 12
F F F F F F F F F F F F
S S S S S S S S S S S S
a
b

FIG. 8B


DISPLAY
BRIGHTNESS
0
255
INPUT IMAGE SIGNAL
1 2 3 4 5 6 7 8 9 10 11 12
F F F F F F F F F F F F
S S S S S S S S S S S S
a
b